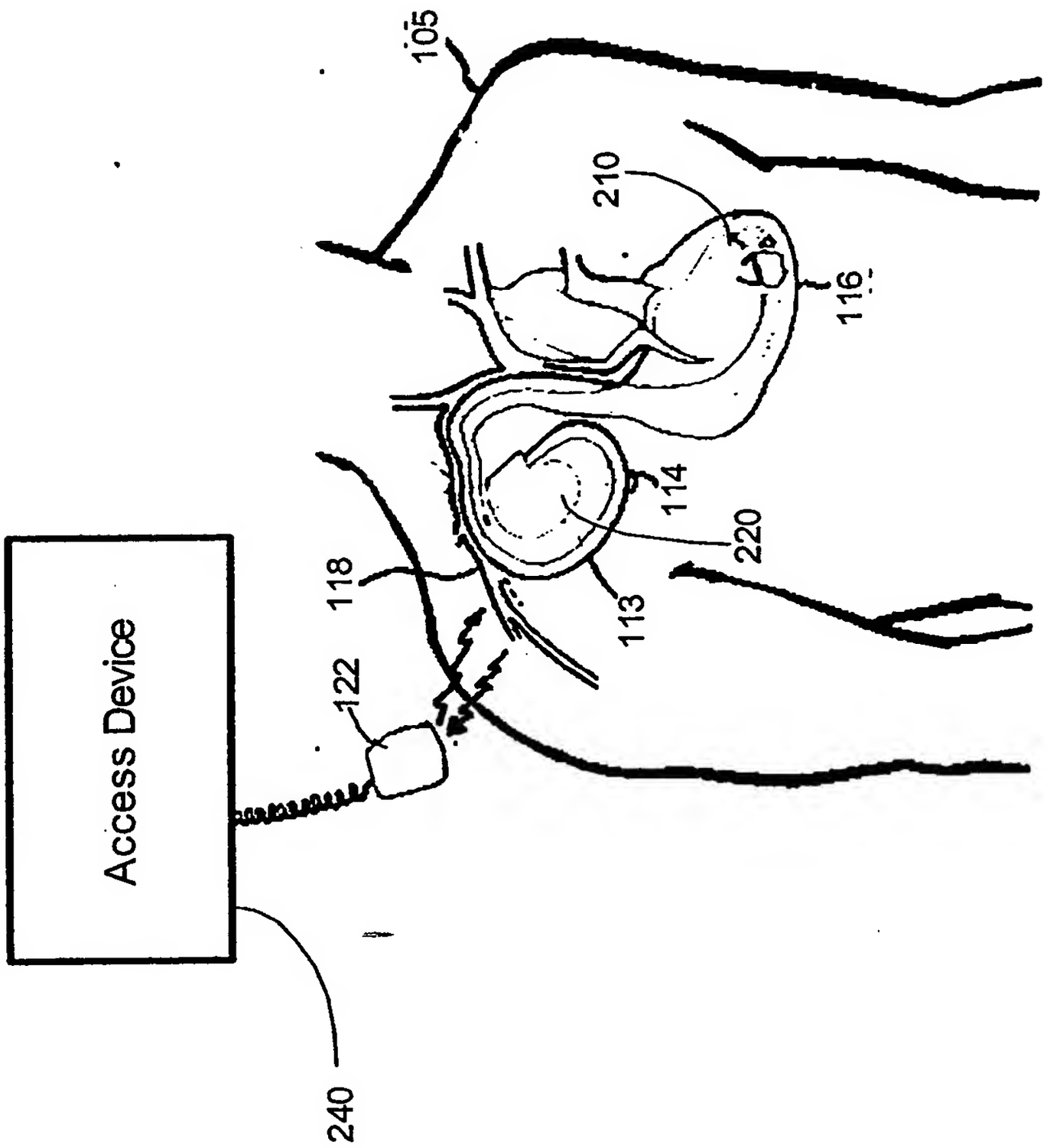


FIGURE 1

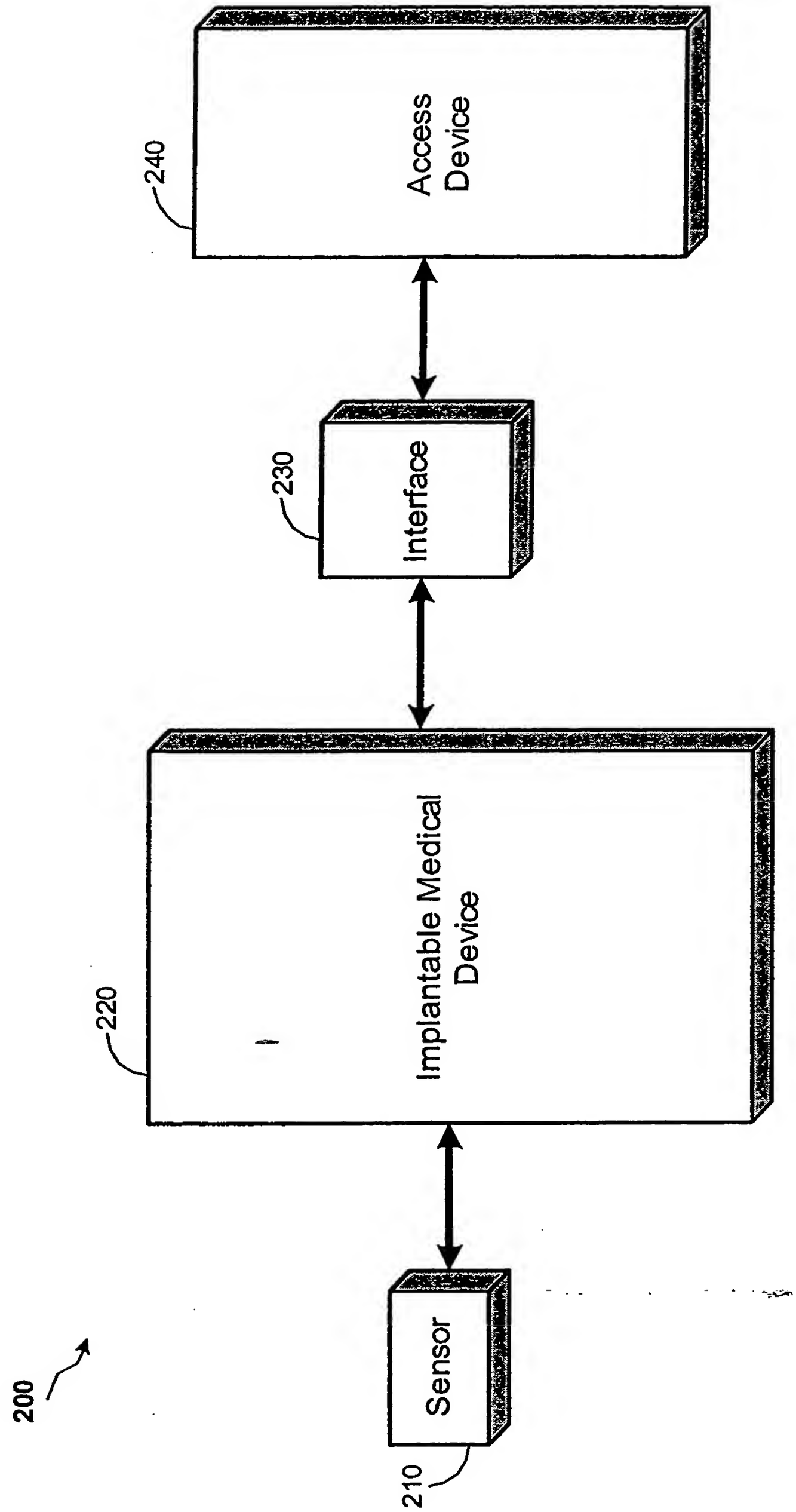
Access Device
240
Interface
230
Implantable Medical Device
220
Sensor
210
200

FIGURE 2

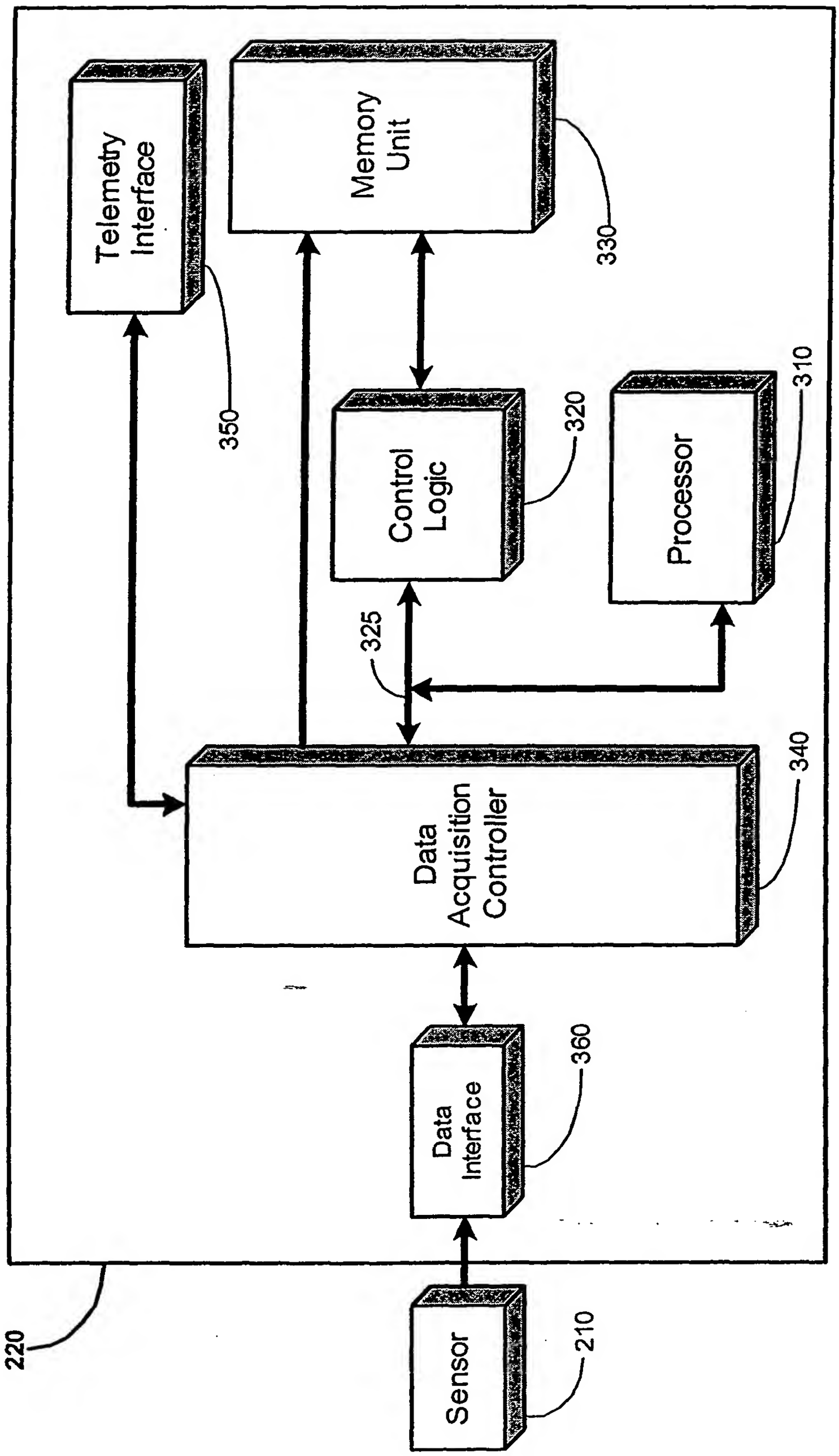
Telemetry Interface
Memory Unit
330
350
Control Logic
320
Processor
310
325
Data Acquisition Controller
340
Data Interface
360
Sensor
210
220

FIGURE 3

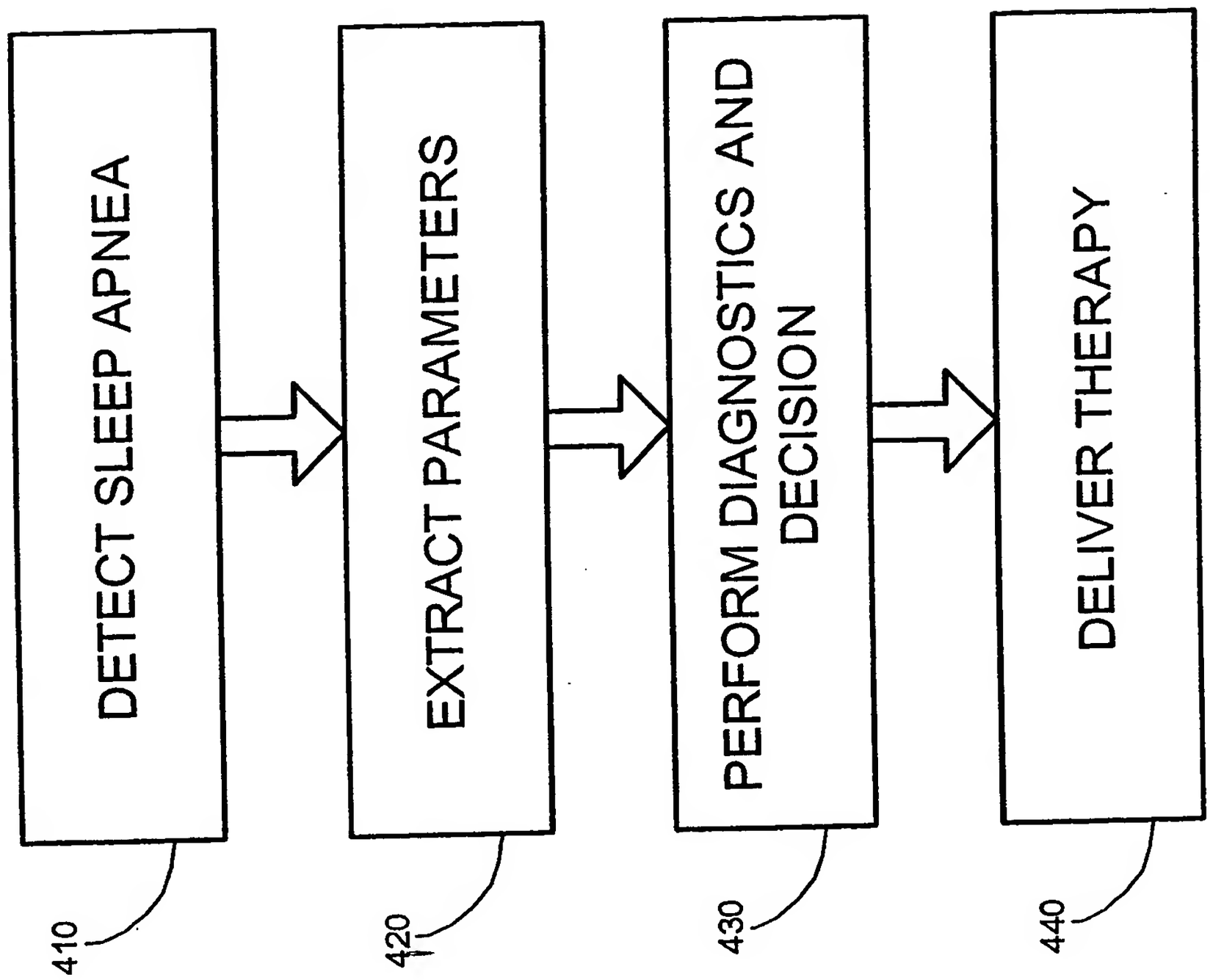
DETECT SLEEP APNEA
EXTRACT PARAMETERS
PERFORM DIAGNOSTICS AND
DECISION
DELIVER THERAPY
410
420
430
440

FIGURE 4

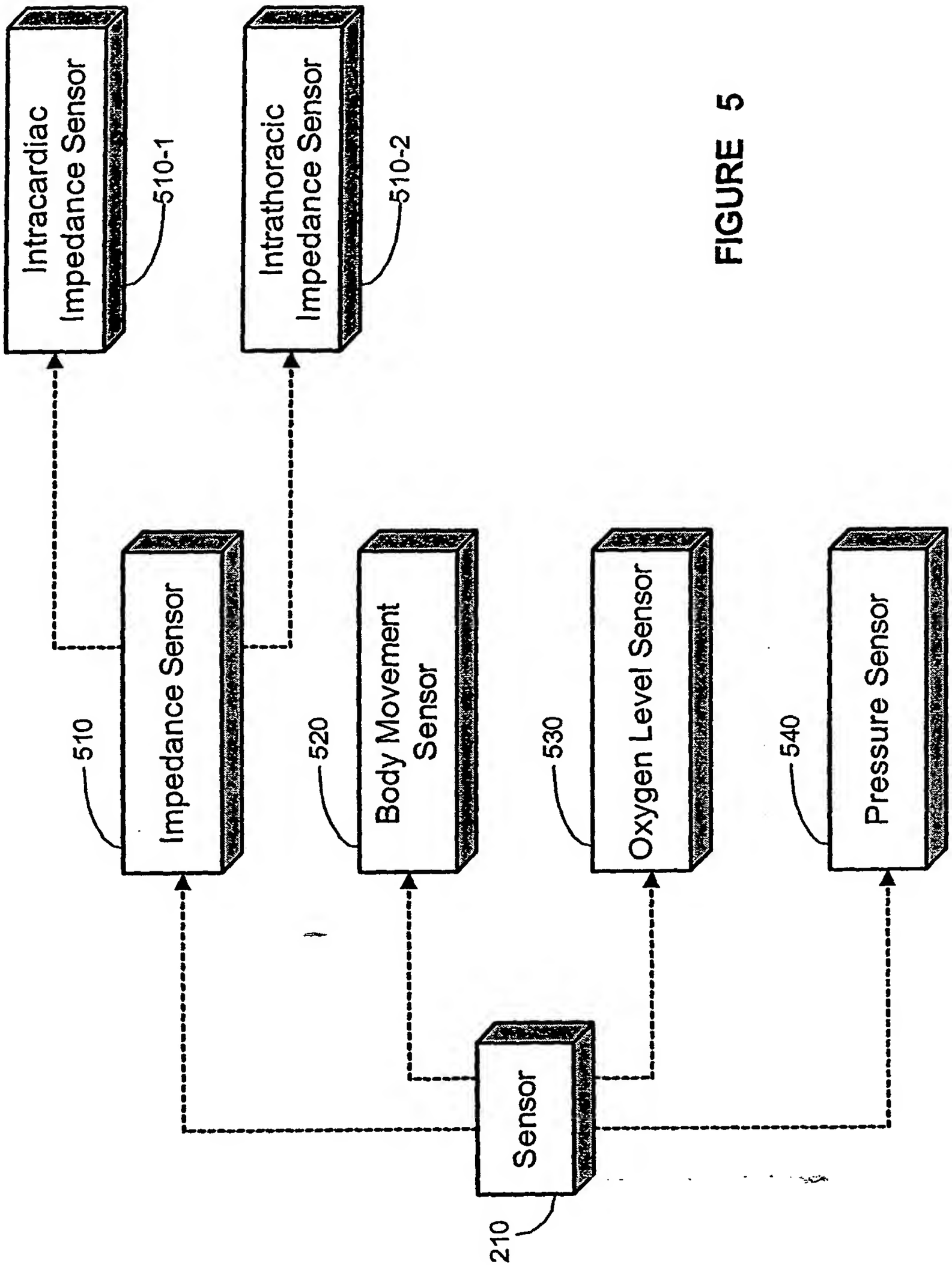
Intracardiac Impedance Sensor
510-1
Intrathoracic Impedance Sensor
510-2
510
Impedance Sensor
520
Body Movement Sensor
530
Oxygen Level Sensor
540
Pressure Sensor
Sensor
210

FIGURE 5

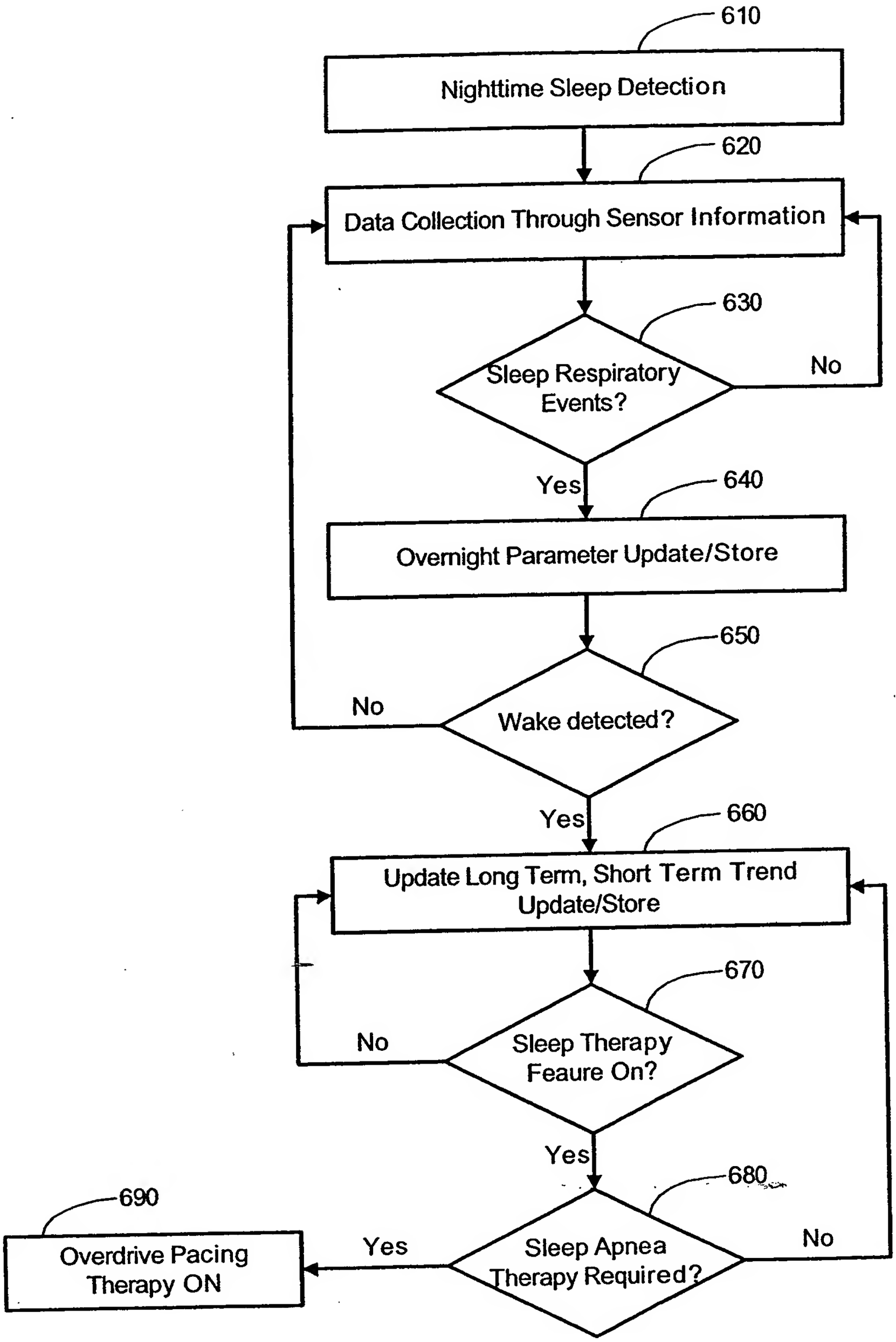
610
Nighttime Sleep Detection
620
Data Collection Through Sensor Information
630
Sleep Respiratory Events?
No
Yes
640
Overnight Parameter Update/Store
650
Wake detected?
No
Yes
660
Update Long Term, Short Term Trend Update/Store
670
Sleep Therapy Feaure On?
No
Yes
680
Sleep Apnea Therapy Required?
No
Yes
690
Overdrive Pacing Therapy ON

FIGURE 6